Title (en)

EXHAUST GAS CATALYST HAVING A REDUCED TENDENCY OF ACCUMULATING SULPHUR DIOXIDE AND HYDROGEN SULPHIDE EMISSIONS

Publication

EP 0358125 A3 19900801 (DE)

Application

EP 89116177 A 19890901

Priority

DE 3830318 A 19880907

Abstract (en)

[origin: JPH02111442A] PURPOSE: To enhance the ability of an exhaust gas purification catalyst to purify exhaust gas from an internal combustion engine by making specified amts. of a Pt group metal and B2 O3 carried as catalyst components on an alumina carrier contg. CeO2 and ZrO2 . CONSTITUTION: An alumina carrier is impregnated with an aq. soln. contg. a Ce salt and, optionally, a Zr salt and it is calcined at 500-900 deg.C in air to form a carrier contg. 2-70 wt.% CeO2 and 0-20 wt.% ZrO2 . This carrier is impregnated with a soln. prepd. by dissolving or dispersing a salt of a Pt group metal and B2 O3 powder and it is calcined at temperatures of 250-650 deg.C in a flow of a hydrogen-contg. gas to obtain the objective catalyst with 5-30 wt.% Pt group metal and 0.2-25 wt.% B2 O3 carried as catalyst components. This catalyst is used for purification of exhaust gas from an internal combustion engine with a reduced tendency to store SOx and to emit H2 S.

IPC 1-7

B01D 53/36; B01J 23/56

IPC 8 full level

B01D 53/86 (2006.01); **B01D 53/94** (2006.01); **B01J 23/56** (2006.01); **B01J 23/63** (2006.01)

CPC (source: EP KR US)

B01D 53/8615 (2013.01 - KR); **B01D 53/945** (2013.01 - EP US); **B01J 23/63** (2013.01 - EP KR US); **B01J 23/894** (2013.01 - KR); **B01J 35/56** (2024.01 - KR); **B01J 37/0009** (2013.01 - KR); **B01J 37/024** (2013.01 - KR); **B01J 37/08** (2013.01 - KR); Y02T 10/12 (2013.01 - EP US)

Citation (search report)

- [Y] EP 0170588 A1 19860205 - CATALYSE SOC PROD FRANCAIS [FR]
- [Y] US 4120821 A 19781017 - IIZUKA AKIO, et al
- [AD] DE 2907106 A1 19800904 - DEGUSSA
- [A] US 4316822 A 19820223 - FUJITANI YOSHIYASU, et al

Cited by

US5116800A; US6086835A; CN1052170C; WO9614153A1; WO9745192A1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0358125 A2 19900314; **EP 0358125 A3 19900801**; **EP 0358125 B1 19930331**; BR 8904438 A 19901002; CA 1335278 C 19950418; DE 3830318 A1 19900315; DE 3830318 C2 19900830; DE 58903941 D1 19930506; ES 2014396 A4 19900716; ES 2014396 T3 19931101; FI 894227 A0 19890907; FI 894227 A 19900308; FI 96746 B 19960515; FI 96746 C 19960826; JP 3130904 B2 20010131; JP H02111442 A 19900424; KR 900004400 A 19900412; MX 171738 B 19931111; US 4963521 A 19901016; ZA 895626 B 19900530

DOCDB simple family (application)

EP 89116177 A 19890901; BR 8904438 A 19890904; CA 610479 A 19890906; DE 3830318 A 19880907; DE 58903941 T 19890901; ES 89116177 T 19890901; FI 894227 A 19890907; JP 22948489 A 19890906; KR 890012848 A 19890906; MX 1744589 A 19890906; US 34572189 A 19890501; ZA 895626 A 19890724